

2,4-diamino-6-(acetohydrazidomethylsulfinylmeth- I)-1,3,5-triazine. State in solution, acid-base and complexing properties

Neklyudov V., Boos G., Fattakhov S., Chmutova G., Shulaeva M., Salnikov Y.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Solutions of a new drug, 2,4-diamino-6- (acetylhydrazidomethylsulfonylmethyl)-1,3,5-triazine, exhibiting tuberculocidal activity were studied using the methods of pH-metry, spectrophotometry, mathematical simulation of equilibria (CPESP software), and molecular mechanics. Protolytic properties of the compound in the medium of aqueous dimethylsulfoxide (40 vol % of DMSO) were characterized. The composition of the copper(II) complex of this compound was determined and its stability constants were calculated. Based on the absorption spectra in the UV and visible regions the complexing ability of 2,4-diamino-6-(acetylhydrazidomethylsulfonylmethyl)-1, 3,5-triazine toward nickel(II) and cobalt(II) were characterized in comparison with copper(II) under the same conditions. © 2013 Pleiades Publishing, Ltd.

<http://dx.doi.org/10.1134/S1070363213070128>
